



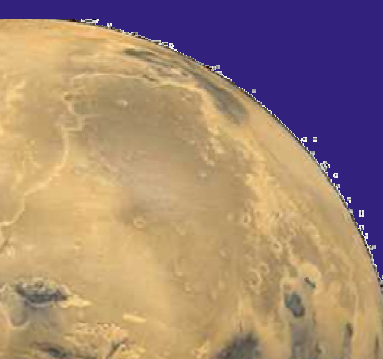
# Mars Scouts: An Overview

Steve Matousek

15th Annual AIAA/USU Conference on Small Satellites

Logan, Utah

August 13-16, 2001



The work described here was performed at the Jet Propulsion Laboratory, California Institute of Technology under contract with the National Aeronautics and Space Administration.



# Outline

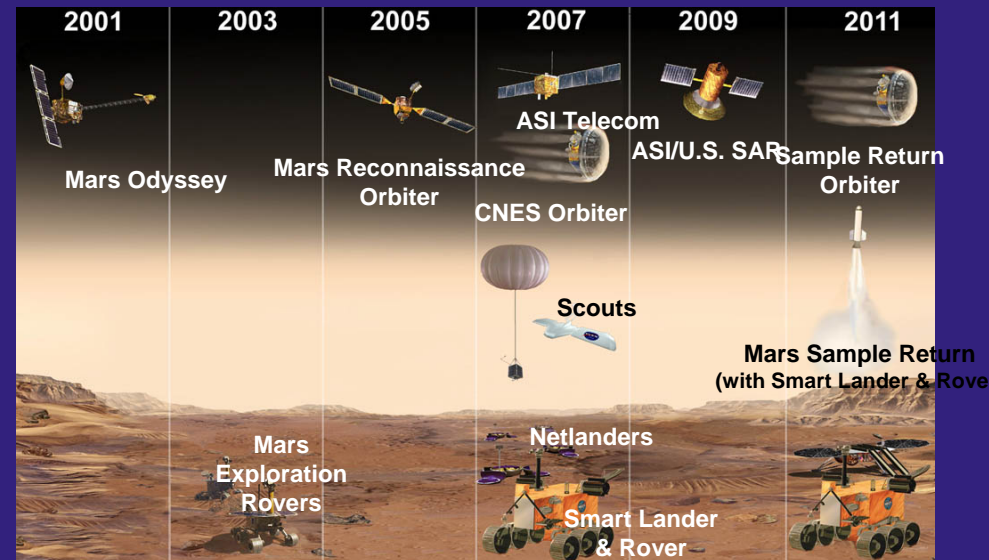
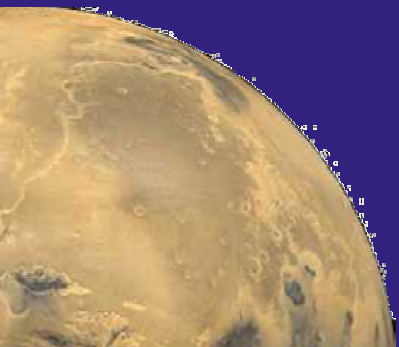
- Why Mars Scouts?
- What are Mars Scouts?
- When is a Scout likely to launch?
- Summary of Concepts to Date?
- Concepts Currently Studied
- Future Work





# Why Mars Scouts?

- Achieve program science goals not otherwise covered in the baseline plan.
- Optimize the use of limited resources to accomplish the best science
- Provide the flexibility to quickly respond to discoveries at Mars.

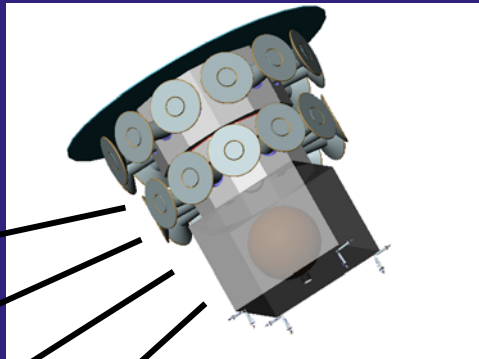
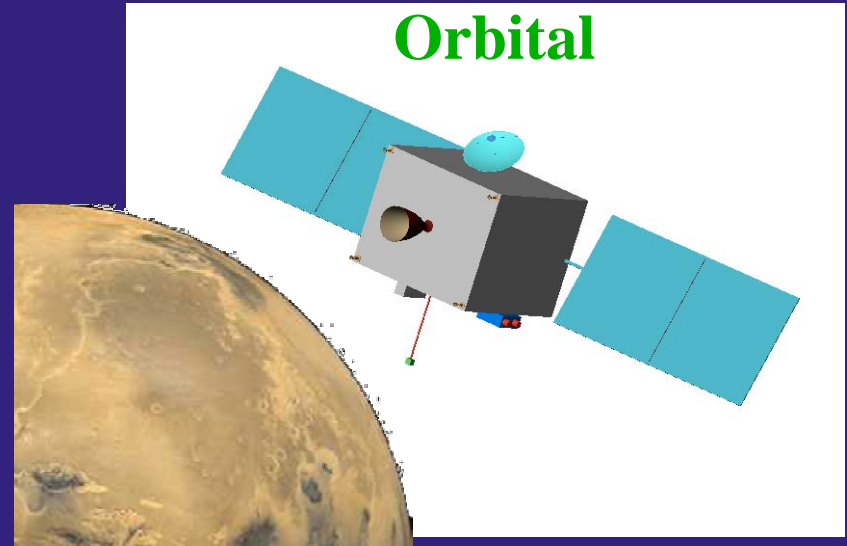
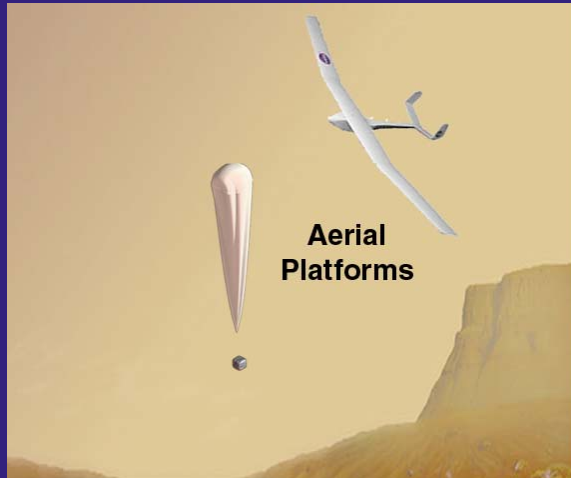




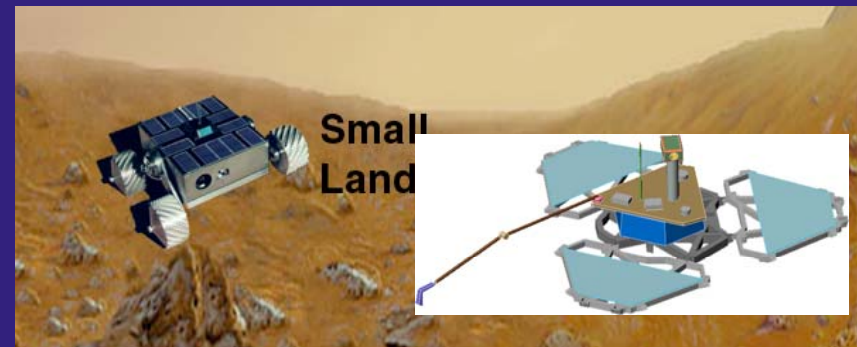
# What are Mars Scouts?

JPL

➤ PI-led missions:

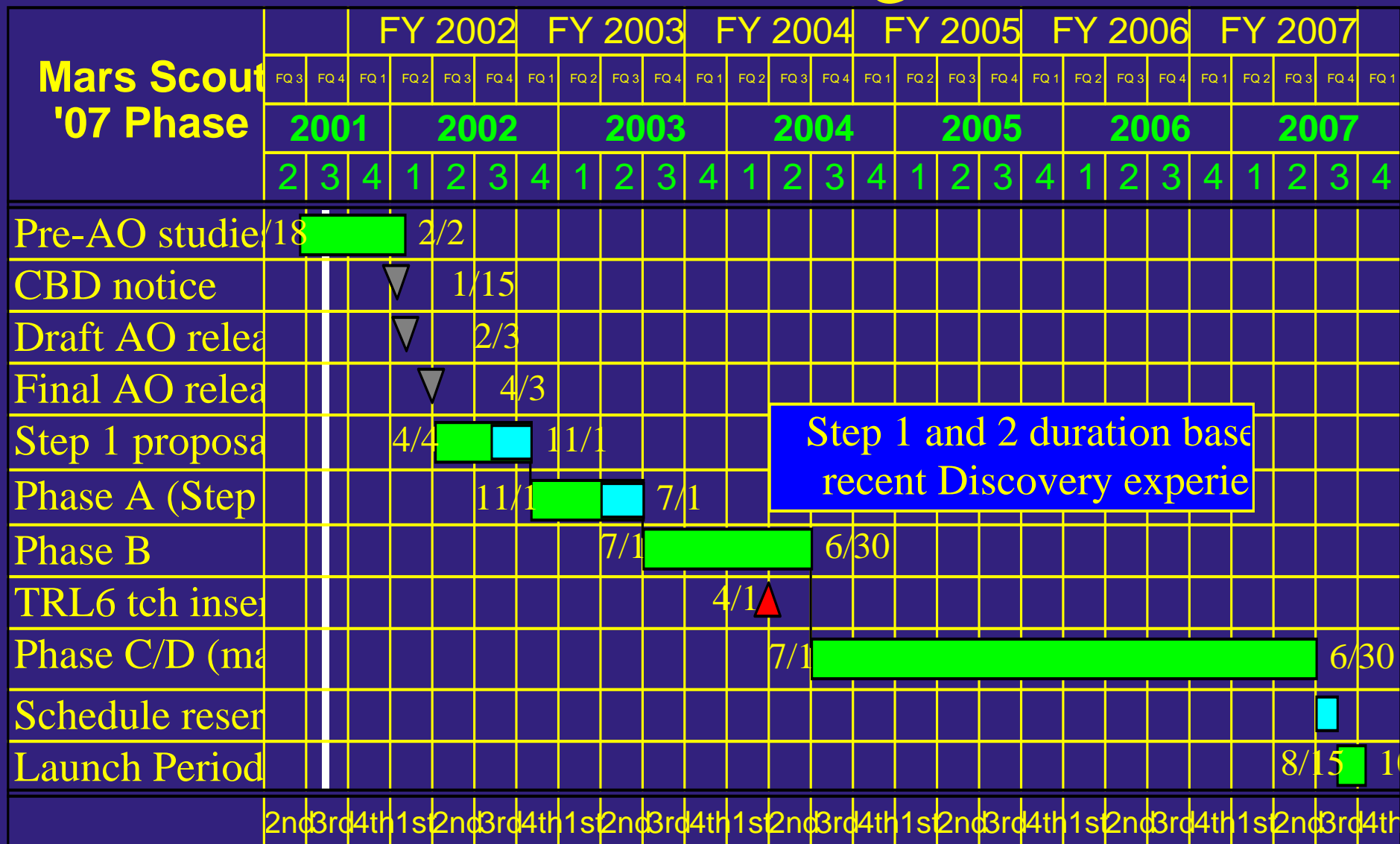


Lander/Rover





# When is a Scout Going to Launch?





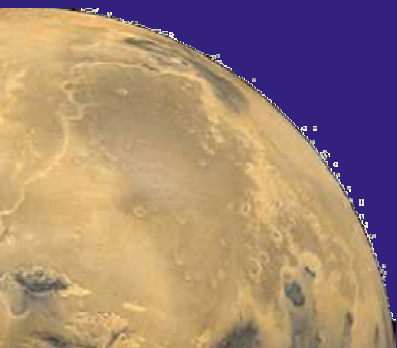
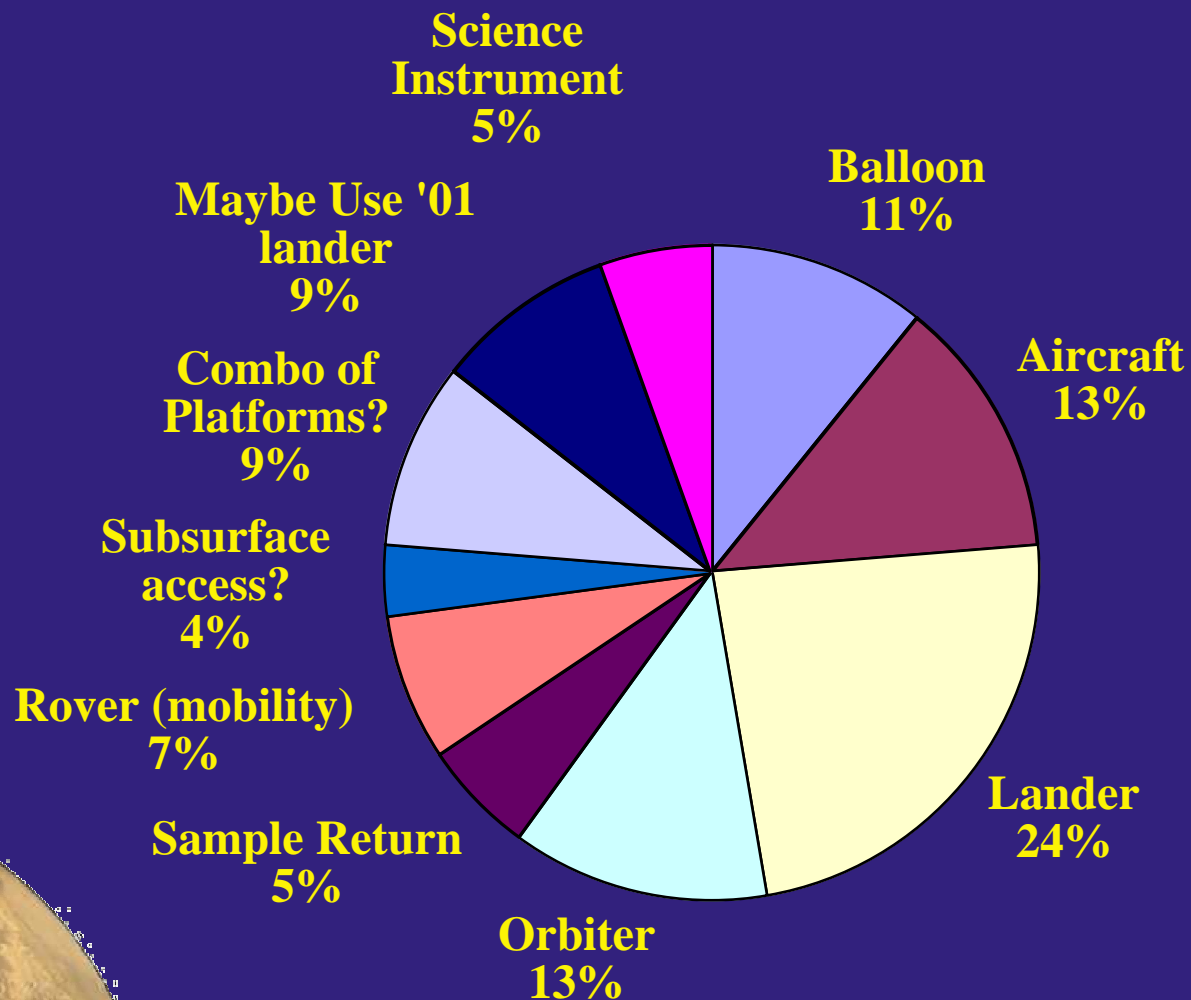
# May '01 Scout Workshop

- Encourage Community Cross-Fertilization
- Select 6-10 Concepts for Further Study
- Selected Concepts Help Scope '02 AO
  - ↳ Possible Science
  - ↳ Needed Technology
  - ↳ Cost/Schedule/Risk
- 43 Concepts Submitted, 10 Selected
- Selected Concepts DO NOT Prejudice AO



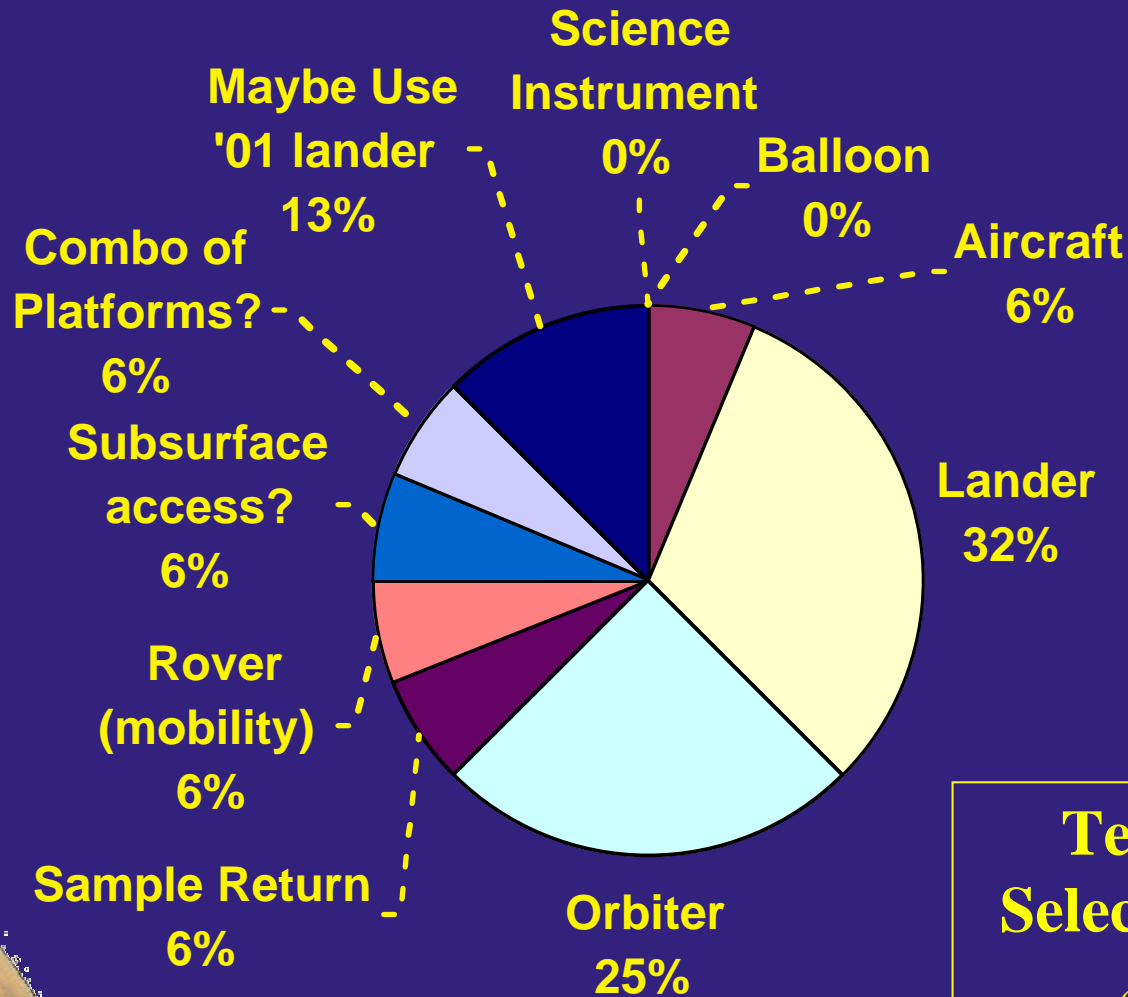


# Summary of Submitted Concepts





# Concepts Currently Studied



**Ten Concepts  
Selected for Study**

(~150K each)







# Future Work

- Start Work on AO by End of CY 2001
- Finish Studies and Report to NASA HQ
- Fold Study Results into AO as Needed
- Stay Flexible With Respect to Mars Program Budget

Mars Scouts are an Exciting  
Addition to the Mars Program!

